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UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

April Field Program, 1916.

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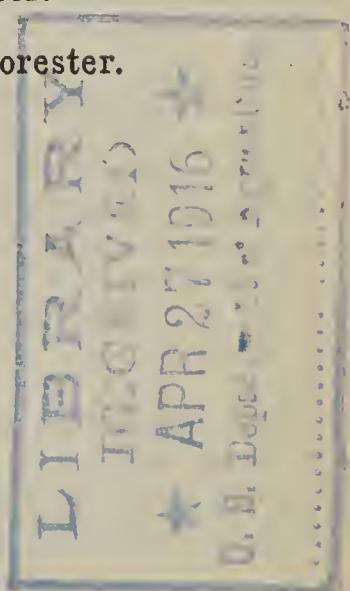
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SOUTH DAKOTA.

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O. N. POWELL, highway engineer (Office of Public Roads and Rural Engineering).

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W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

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STUDIES.—R. R. HILL, grazing examiner.

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CHAS. H. KENDALL, highway engineer (Office of Public Roads and Rural Engineering).

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STUDIES.—MARK ANDERSON, grazing examiner.

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NATIONAL FORESTS.

ARIZONA.

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Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU-Am); Dana Parkinson, deputy forest supervisor.

Cache.—See Utah.

Caribou.—L. W. HASTINGS, acting forest supervisor, Montpelier (WU-Am); James H. Hull, forest examiner. Grazing studies: C. E. Favre and W. V. Evans.

Challis.—DAVID LAING, forest supervisor, Challis (WU-Am).

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU-P); H. C. Williams, deputy supervisor; H. B. Maris, forest examiner.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU-Am).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU-Am); C. D. Simpson, forest examiner.

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU-Am).

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU-Am); Lawrence J. Phelan, deputy forest supervisor (on special road work); F. S. Moore, deputy forest supervisor.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU-Am); S. S. Stewart, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU-Am); Herbert G. McPheters, deputy forest supervisor.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am); Samuel W. Stoddard, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am); A. E. Oman, forest examiner.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Elko (WU-WF).

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU-WF).

Ruby.—JAMES M. RYAN, forest supervisor, Deeth (WU-WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise Valley (WU-Am, WF).

Toiyabe.—VERNON METCALF, forest supervisor, Austin (WU, P-WF); Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU-WF); Chas. F. Evans, forest examiner.

Cache.—E. C. SHEPARD, forest supervisor, Logan (WU-Am); Edmund B. S. Spencer, deputy forest supervisor. Grazing studies: L. T. Palmer.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU-WF).

Fillmore.—ERNEST WINKLER, forest supervisor, Richfield (WU-WF).

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU-WF); David A. Arrivee, deputy forest supervisor. Grazing studies: Bryant S. Martineau.

La Sal.—S. B. LOCKE, forest supervisor, Moab (WU-WF).

Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU-WF); W. M. Mace, deputy forest supervisor. Grazing studies: J. A. Willey and R. J. Becraft.

Minidoka.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).

Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU-WF); Wallace M. Riddle, deputy forest supervisor. Grazing studies: A. W. Stevens and T. B. Nichols.

Uinta.—A. W. JENSEN, forest supervisor, Provo (WU-WF); J. Carl Alfred, deputy forest supervisor; J. W. Stokes, forest examiner.

Wasatch.—J. F. BRUINS, forest supervisor, Salt Lake City (WU, P-Am, WF); Carl A. Mattesson, deputy forest supervisor; Wm. F. Tribe, J. C. Roak, and Lester E. Hitchcock, forest examiners.

WYOMING.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU-Am).

Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU-Am); John E. Ingram, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; W. C. HODGE, Jr., in charge information; CLARENCE WILEY, national forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—CHARLES C. BRUNNER, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; EVAN W. KELLEY, national forest examiner; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

C. C. MORRIS, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; L. W. HESS, office assistant; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, reconnaissance.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant; G. FLIPPO GRAVATT, scientific assistant, San Francisco, Cal.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, national forest examiner, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.; Stuart B. Show, forest examiner, assistant; Douglas K. Noyes, forest examiner.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF).

California.—J. D. COFFMAN, forest supervisor, Willows (WU-WF); B. H. Mace, deputy forest supervisor.

Cleveland.—N. H. SLOANE, forest supervisor, Escondido (WU-WF).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU-WF).

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF).
Klamath.—W. B. RIDER, forest supervisor, Yreka (WU-WF).
Lassen.—W. J. RUSHING, forest supervisor, Red Bluff (P-WF); C. H. Ensign, scaler, reconnaissance.
Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU-WF); Oscar M. Evans, forest examiner.
Mono.—See Nevada.
Monterey.—HAMILTON G. MERRILL, forest supervisor, King City (WU-WF).
Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU-Am); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.
Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P-WF).
Sequoia.—S. W. WYNNE, forest supervisor, Hot Springs (WU via Ducor-WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.
Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery, Fred W. Graham, forest ranger, in charge, McCloud.
Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant-WF via Friant); Chester E. Jordan, deputy forest supervisor; D. C. Birch and Ernest G. Dudley, forest examiners.
Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU-WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.
Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen and K. Mills, forest examiners.
Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.
Inyo.—See California.
Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF).
Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.
 GEO. H. CECIL, district forester; LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; Shirley Buck, national forest inspector.

M. L. MERRITT, assistant in improvement work; C. M. Allen, telephone engineer.

GEOGRAPHY.—ALLEN H. HODGSON.

FIRE STUDIES.—W. B. OSBORNE, deputy forest supervisor; Norman G. Jacobson, forest examiner.

B. J. FINCH, senior highway engineer (Office of Public Roads and Rural Engineering).

SILVICULTURE.—F. E. AMES, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen.

PLANTING.—J. F. KÜMMEL, C. P. WILLIS, and W. H. LEVE, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT.

USES AND STATIONS.—FRANK A. LAW, JR.

LAND CLASSIFICATION.—J. ROY HARVEY.

ENTRY SURVEYS.—W. M. H. WOODWARD.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH.

PRODUCTS.—H. B. OAKLEAF, in charge; Claude E. Greider and C. W. Gould, Portland; C. W. Zimmerman, Cornelius Barry, and E. G. Snell, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thomas M. Hunt, deputy forest supervisor.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); George L. Drake, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF) ; B. F. Heintzleman, deputy forest supervisor.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF) ; E. H. MacDaniels, deputy forest supervisor ; H. D. Foster, Bruce Hoffman, forest examiners.

Deschutes.—W. W. G. HASTINGS, forest supervisor, Bend (WU, P) ; V. V. Harpham, deputy forest supervisor.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev-P, WF) ; R. A. Bradley, deputy forest supervisor.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker-Am, WF via Baker).

Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU-Am) ; W. E. White, forest examiner.

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T-Am) ; R. E. Smith, forest examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P-Am, WF, N) ; Ralph S. Shelley, deputy forest supervisor ; R. H. Wallace and Geo. A. Bright, forest examiners ; Robert Craig, national forest examiner.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P-WF) ; A. R. Wilcox, forest examiner.

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P-WF) ; D. B. Reynolds, deputy forest supervisor ; H. Haefner, forest examiner.

Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P-WF) ; C. T. Beach, deputy forest supervisor ; H. M. Johnson and L. B. Pagter, forest examiners.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P-Am) ; F. B. Kellogg, forest examiner.

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF) ; George Bonebrake, deputy forest supervisor ; A. F. Kerr, forest examiner.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU-Am) ; N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker-Am, WF via Baker) ; R. M. Evans, deputy forest supervisor ; T. J. Starker, forest examiner ; F. A. Matz, national forest examiner.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee).

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); L. Wernsted, forest examiner.

Colville.—C. C. REID, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T-Am, GN via Wenatchee).

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P-Am, GN, N); A. A. Parker, deputy forest supervisor; E. J. Hanzlik, forest examiner.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

Snoqualmie.—LEWIS A. TREEN, Jr., acting forest supervisor, Seattle (WU, P-N, GN, WF); A. G. Jackson, forest examiner.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N); R. L. Campbell, deputy forest supervisor.

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN).

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester; FRANKLIN W. REED, assistant district forester; H. O. STABLER, assistant district forester; FRANCIS KIEFER, assistant district forester; S. L. WOLFE, forest examiner, in charge of products.

NATIONAL FORESTS.

ARKANSAS.

Arkansas.—R. C. HUEY, forest supervisor, Hot Springs (WU, P-WF, P); E. J. Mead, deputy forest supervisor.

Ozark.—E. V. CLARK, forest supervisor, Harrison (WU-WF); A. C. Christenson, deputy supervisor; C. J. Heller, forest examiner.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Pensacola (WU, P); W. F. Hill, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU-WF).

PORTO RICO.

Luquillo.—(Not under administration.)

PURCHASE AREAS.

Boone.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P-So).

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P-Ad).

Georgia.—H. G. SPAHR, forest examiner, in charge, Blue Ridge, Ga. (WU, P-Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P-So).

Monongahela.—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P-Ad).

Mount Mitchell.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P-So).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P-So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P-Ad, So).

Pisgah.—VERNE RHOADES, forest examiner, in charge, Asheville, N. C. (WU, P-So).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P-So).

Savannah.—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P-So).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P-Ad, So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P-So).

White Top.—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P-So).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P-Am).

SERVICE CHANGES.

APPOINTED.

DISTRICT 1.—Lloyd G. Hornby, Flathead, forest assistant; Frederick Cappel, Gallatin, George F. Mills, Beartooth, clerks (forest); Mrs. Nellie Lee Saylor, Absaroka, clerk (stenographer and typewriter); John W. Pierson, messenger boy.

DISTRICT 2.—Ruth A. Dunnington, Black Hills; William J. Trembath, Harney; Claude I. Depuy, Montezuma, clerks (stenographers and typewriters).

DISTRICT 3.—Cecile M. Wandby, Carson, clerk (stenographer and typewriter); Ross Earl Fortney, Tusayan, clerk (forest); Thomas C. Turk, Alamo; Thomas Jefferson Ground and Edgar L. Perry, Carson; Will J. Brown, Coconino; Robert B. Ewing, Clifford R. Minner, Charles L. Rak, and Robert C. Salton, Datil; Theron R. Littlefield, Tonto, assistant forest rangers; George L. Beckwith and Evelyn Grace Lackie, clerks (stenographers and typewriters); Harry M. Frank, clerk.

DISTRICT 4.—Charles E. Russell, Manti; Harrold C. Haglund, Powell; William B. Crites, Sevier, clerks (forest); Aaron P. Christiansen, Uinta, assistant forest ranger.

DISTRICT 5.—Abraham L. Ginsburg, Plumas; George J. Austin, Feather River Experiment Station; Richard L. Wiley, California; John A. O'Connell, Modoc, clerks (stenographers and typewriters); Joseph C. Dort, assistant engineer; Frank Keegan and Raymond G. Kelly, messengers.

DISTRICT 6.—Moritz L. Mueller, Snoqualmie, assistant forest ranger; James J. Randall, Minam, clerk.

PROMOTED IN RANK.

DISTRICT 1.—John F. Forsythe, Kaniksu, deputy forest supervisor to forest supervisor; Emil A. Anderson, Blackfeet, assistant forest ranger to forest ranger.

DISTRICT 2.—Huber C. Hilton, Michigan, forest examiner to forest supervisor.

DISTRICT 3.—Paul G. Redington, forest supervisor to district forester; Ausburn H. Douglas, Datil, deputy forest supervisor to forest supervisor; Clifford W. McKibbin, deputy forest supervisor to forest examiner; Edward G. Miller, Datil, forest ranger to deputy forest supervisor; Francis P. Porcher, district office; William L. Scofield, Apache; Ward Shepard, Datil, assistant forest rangers to forest rangers.

DISTRICT 4.—Charles DeMoisy, jr., Ashley; Samuel A. Macfarlane, Dixie; Fred O. Johnson, Uinta, assistant forest rangers to forest rangers.

DISTRICT 5.—Hamilton G. Merrill, deputy supervisor to forest supervisor; Thos. W. Sloan, Angeles, forest ranger to deputy forest supervisor; James B. Stephenson, Cleveland; Lee Slinkard, Sequoia, assistant forest rangers to forest rangers; George E. Poore, Tahoe; Francis D. Bucklew, Trinity, forest guards to assistant forest rangers.

DISTRICT 6.—W. W. G. Hastings, Deschutes, deputy forest supervisor to forest supervisor; Jos. L. Mackechnie, Siuslaw, assistant forest ranger to forest ranger; Lewis E. McDaniels, Okanogan, assistant forest ranger to deputy forest supervisor; Melvin L. Merritt, forest supervisor to forest examiner.

DISTRICT 7.—Edward V. Clark, Ozark, national forest examiner to forest supervisor; Francis Kiefer, forest supervisor to assistant district forester.

CHANGE IN DESIGNATION.

FORESTER.—Arthur C. Ringland, district forester, district 3, to forest inspector.

DISTRICT 1.—Mallory N. Stickney, Bitterroot, forest supervisor to deputy forest supervisor; J. B. Taylor, Deerlodge; Lloyd G. Hornby, Flathead, forest assistants to assistant forest rangers.

DISTRICT 3.—Paul P. Pitchlynn, Sitgreaves, forest examiner to forest supervisor.

DISTRICT 4.—Bruce L. Coulter, Teton; Thomas V. Pearson, Wyoming, forest clerks to assistant forest rangers.

DISTRICT 5.—Eugene E. Clark, Ivan A. Cuff, and Arthur W. Phillips, Cleveland, forest guards to assistant forest rangers; Elmore W. Searcy, Cleveland, forest ranger to assistant forest ranger.

DISTRICT 6.—Clark W. Gould and Claude E. Greider, statisticians in forest products to forest examiners; Robert L. Campbell, Washington, clerk to deputy forest supervisor.

DISTRICT 7.—Harold M. Sears and Chas. E. Beaumont, Arkansas, forest examiners to assistant forest rangers.

RESIGNED.

ACQUISITION.—Walter H. Shirey and Malcolm G. Starrow, transitmen.

GRAZING.—Chas. E. Fleming, grazing examiner.

RESEARCH.—Laboratory, Harry D. Tiemann, engineer in forest products; Roy C. Judd, assistant chemist in forest products.

DISTRICT 1.—Edward A. Holcomb, St. Joe, forest supervisor; Charles E. Brackett, Custer; D. William Arrison, Nezperce, forest rangers; Jacob H. Camp, Custer; Ross L. Stalcup, Madison, assistant forest rangers; John F. Gillings, Beartooth, clerk (forest); Mrs. Melissa S. Wilson, Absaroka, clerk (stenographer and typewriter).

DISTRICT 2.—Sadie L. Strotheide, Black Hills, clerk (stenographer and typewriter) ; Matthew J. Bedall, Montezuma, clerk (forest) ; Wm. P. Piper, Michigan, forest examiner.

DISTRICT 3.—Chalmers McConnell, Alamo, clerk (forest) ; Julia Ziegler, Carson, clerk (stenographer and typewriter) ; Jay L. B. Taylor, Prescott ; Earl B. Young, Santa Fe, forest rangers ; Dayton G. Darrah, Carson ; Charles A. Firth, Tonto, assistant forest rangers ; Frank Harrison, Fort Valley Experiment Station, clerk (forest).

DISTRICT 4.—Albert M. Smith, property clerk and purchasing agent ; George G. Bentz, Caribou, forest supervisor ; Joseph M. Moody, Dixie ; Frank Athel Herrell, Santa Rosa ; Elias H. Smith, Sevier ; James A. Wholey, Toiyabe, forest rangers ; Lorin A. Loomis, Palisade ; Levon H. Koomey, Wasatch ; Leo. F. Morris, Weiser, assistant forest rangers ; Harry L. Strembel, Sevier, clerk (forest).

DISTRICT 5.—Harry J. Blonder and H. J. S. Strickland, messengers ; Arthur H. Wixom and John R. Bauer, California ; Floyd V. Wike, Santa Barbara, assistant forest rangers ; Sylvester W. Strothman, California, forest examiner ; Harold C. Haglund, California ; Lillian R. Jones, Modoc ; Chester F. Paul, Modoc ; Edmund E. Meyer, Plumas, clerks (stenographers and typewriters).

DISTRICT 6.—Maud V. Ferbrache, Snoqualmie, clerk ; Verne L. Ketchum, surveyor-draftsman ; Charles H. Wolverton, Chelan, assistant forest ranger ; Lena M. Ash, clerk.

With deep regret announcement is made of the death of Edward J. Leary, clerk, California, February 22, 1916.

SERVICE NOTES FOR APRIL.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

EDITOR.

Reprint of Geological Survey Guidebooks—

The Geological Survey plans to reprint its series of Guidebooks describing the geological formations and other topographic features along the principal western railroads. The series consists of four separate parts, as follows:

Part A. The Northern Pacific Route.

Part B. The Overland Route.

Part C. The Santa Fe Route.

Part D. The Shasta Route and Coast Line.

When issued, copies will be furnished to members of the Service who have use for them. In order that a list may be compiled, those who desire copies should send their names to the Forester, specifying which part is wanted. These requests should be transmitted as promptly as possible.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Great Northern Railway Co., Winston Brothers Co. and C. W. Werdenhoff: Fire trespass, Lewis and Clark National Forest. January 17, 1916, defendants filed amended answer. Motion to strike from amended answer filed and briefs submitted in connection therewith. The testimony of former Supervisor Bunker was taken in Fitchburg, Mass., in February, and the testimony of the Sande brothers was taken at Red Deer, Alberta, in March.

United States *v.* William Young: Occupancy trespass, civil, Gallatin National Forest. From 1905 to 1915 Young leased from the State of Montana sec. 16, T. 3 N., R. 6 E., and paid the State \$487.50. This land is within the Gallatin National Forest. Upon request of the Forest Service, the State made settlement. Case closed in law March 18, 1916.

13 United States *v.* Ferris & Burden: Grazing trespass, civil, Beaverhead National Forest. Case closed upon payment of \$4, value of forage consumed.

United States *v.* Johnnie Gross, jr.: Occupancy trespass, civil, Sioux National Forest. Letter written to trespasser calling for \$59.75, sent by district forester.

Law Cases in District 2—

United States *v.* George Korab: Timber trespass, Black Hills National Forest. Case closed upon payment of \$59.26, value of timber cut.

United States *v.* J. F. Church: Grazing trespass, Arapahoe National Forest. Case closed upon payment of \$41.27, value of forage consumed.

United States *v.* O. P. Olson: Grazing trespass, Hayden National Forest. Settled by payment of \$45.57 actual and \$100 punitive damages.

United States *v.* Carbon Timber Co.: Timber trespass, Medicine Bow National Forest. Compromise agreement entered into July 8, 1911, involving the payment of \$23,572.74, and building of a \$20,000 fire line by the company. All other conditions of the agreement of settlement having been complied with by the company, the case was closed upon final payment of \$4,000 by the American Surety Co.

United States *v.* Colorado Power Co.: Occupancy trespass, Holy Cross National Forest. On January 11, 1916, the District Court for the District of Colorado decided the case. The court held that such rights as the defendant company has to occupy the complainant's lands are dependent upon the terms of the act of February 15, 1901 (31 Stat., 790); that the United States has the right to impose reasonable restrictions and require payment of reasonable fees for the use and enjoyment of its lands under the provisions of such act; that the fees imposed, which amounted to a charge of approximately \$100 per month, were not excessive or unreasonable; that the method or means by which the Secretaries of the Interior and Agriculture sought to ascertain the amount of such fees, viz, by subjecting the defendant's business to public surveillance, etc., was beyond the authority given by the act of 1901, *supra*; that the nonpayment of such fees did not, therefore, justify or warrant a revocation of the permit; that the attempted revocation of the permit on March 3, 1909, was void; that the original permit is, therefore, valid and continues in effect; that the defendant is required to comply with such reasonable regulations as the Secretary of Agriculture may impose upon the maintenance and operation of the plant. The court held also that the construction of a tunnel instead of a ditch did not justify or warrant a revocation of the permit, nor did the further fact that the line of the tunnel departed from the proposed line of the ditch justify or warrant such revocation. Upon stipulation of counsel for the United States and for the defendant company the date for entering final decree has been continued until July 8, 1916.

United States *v.* I. N. Pepper: Breach of timber sale contract, Uncompahgre National Forest. Judgment by default for the sum of \$31.75 damages and \$5.50 interest, together with \$31.50 costs.

United States *v.* Tin Cup Gold Dredging Co.: Timber settlement, Gunnison National Forest. Case closed upon payment of \$58.87, value of timber cut.

Law Cases in District 3—

United States *v.* Hoopes Bros.: Timber trespass, Crook National Forest. Settled by payment of \$25.25, full value of timber.

United States *v.* A. & B. Schuster: Grazing trespass, Apache National Forest. Settled by payment of \$50.

United States *v.* Simion Landa: Grazing trespass, Prescott National Forest. December 29, 1915, defendant held for grand jury under \$250 bond. March 25, 1916, defendant entered plea of guilty and paid fine of \$50. He also served several weeks in jail because of his inability to furnish bond.

United States *v.* W. H. Collie: Occupancy trespass, Coronado National Forest. Suit for injunction filed.

United States *v.* Medler Bros.: Grazing trespass, Tonto National Forest. Suit for injunction and damages filed. Defendants' motions to dismiss and to make complaint more definite and certain denied March 6. United States' application for temporary injunction to compel the removal of stock at spring roundup argued March 13 and taken under advisement, the court announcing, however, that injunction would be granted unless defendants removed at least 500 head of stock by April 1.

United States *v.* R. H. Cameron: Occupancy trespass, Tusayan National Forest. Suit for injunction against illegal occupancy of canceled mining location. March 25, defendant's motion to dismiss or transfer to the law side denied.

Cameron *v.* Bass: Injunction proceedings, Tusayan National Forest. Suit by claimant of canceled mining location to enjoin special use permittee from occupying portion of area formerly embraced in location. Notice of appeal to Supreme Court of Arizona filed by defendant. Supersedeas bond fixed at \$2,000.

United States *v.* Robert Eanes: Fire trespass, Alamo National Forest. Defendant served 90 days in jail and paid costs amounting to \$170.90.

United States *v.* Wm. Sproull: Grazing trespass, Tonto National Forest. Final decree enjoining defendant from grazing hogs in trespass entered January 8.

United States *v.* John Rock, R. T. & G. W. Fenter: Grazing trespass, Coronado National Forest. Settled by payment of \$458.70 on account of judgment.

United States *v.* L. J. Chapman: Timber trespass, Carson National Forest. Case closed on payment of \$13.02, the value of the timber cut.

United States *v.* S. W. Jaques: Grazing trespass, Sitgreaves National Forest. Case closed on payment of \$5.19, the value of the forage.

United States *v.* A. J. Merrell: Timber trespass, Sitgreaves National Forest. Case closed on payment of \$5.60, the value of the timber cut.

United States *v.* A. Eichwald: Grazing trespass, Santa Fe National Forest. Case closed on payment of \$7.50, the value of the forage.

United States *v.* M. N. & Ella Eldridge: Grazing trespass, Tonto National Forest. Case closed on payment of \$35.15, the value of the forage.

United States *v.* H. R. Pitts: Grazing trespass, Tonto National Forest. Case closed on payment of \$26.63, the value of the forage.

United States *v.* J. E. Cartwright: Grazing trespass, Prescott National Forest. Case closed on payment of \$278.75, the value of the forage.

United States *v.* R. J. & J. M. Cartwright: Grazing trespass, Prescott National Forest. Case closed on payment of \$700, the value of the forage.

United States *v.* C. E. Cartwright: Grazing trespass, Prescott National Forest. Case closed on payment of \$138.75, the value of the forage.

United States *v.* E. A. Cartwright: Grazing trespass, Prescott National Forest. Case closed on payment of \$65, the value of the forage.

United States *v.* Cook & Laird: Grazing trespass, Prescott National Forest. Case closed on payment of \$468.75, the value of the forage.

United States *v.* Stella L. Cook: Grazing trespass, Prescott National Forest. Case closed on payment of \$156.25, the value of the forage.

United States *v.* Hooker & Kellogg: Grazing trespass, Prescott National Forest. Case closed on payment of \$312.50, the value of the forage.

Law Cases in District 4—

United States *v.* C. C. Creer: Grazing trespass, Uinta National Forest. Defendant paid \$50 actual damages. Case closed.

United States *v.* John M. Pulsipher: Grazing trespass, Dixie National Forest. Defendant paid \$202.09 on account of damages sustained by the Government, and case closed.

United States *v.* Ralph L. Call: Grazing trespass, Boise National Forest. Payment made of \$6 actual damages, \$10 punitive damages, and \$5.60 costs of suit. Case closed.

United States *v.* Myron L. Crandall: Fire trespass, Uinta National Forest. Settlement made in sum of \$61.82, being expense to the Forest Service in extinguishing a fire set by trespasser upon his lands and negligently allowed to spread to National Forest lands.

United States *v.* Marciel Madarieta: Fire trespass, Minidoka National Forest. Defendant arrested on warrant sworn to by supervisor and put under \$100 bond to appear February 14 before United States grand jury at Boise. Grand jury was postponed, but no notice

having been sent to defendant he put in an appearance. The court, in the absence of any representative of the Forest Service, accepted his statements as to the circumstances and imposed a fine of \$10 and costs, which was paid.

United States v. Myrl Byrd: Property trespass, Cache National Forest. Defendant arrested on a charge of breaking into a ranger station and stealing Government property. He admitted his guilt and in default of \$1,000 bond fixed by the United States commissioner he was lodged in jail at Pocatello, Idaho. Was bound over to the grand jury.

Law Cases in District 5—

United States v. Trinity Asbestos Mining Co.: Timber trespass, Shasta National Forest. On March 6, 1916, the Federal court, Northern District of California, rendered judgment in favor of the United States against this company in the sum of \$227.73 and costs. This amount represented the value of timber taken from mining claims and used on an adjacent mill site for a reduction works, or quartz mill, and a sawmill, the defendant claiming these buildings as improvements of the mining claims under the act of June 30, 1878 (20 Stat., 89).

United States v. Eldorado Lumber Co.: Timber trespass, Eldorado National Forest. This company, which was adjudged a bankrupt in 1909, paid \$500 in full settlement for timber cut along the right of way of its logging railroad.

United States v. Steve Andrews: Fire trespass, Inyo National Forest. Payment was made of \$15.83, expenses incurred in controlling the fire.

United States v. Sloat Lumber Co.: Timber trespass, Plumas National Forest. Defendant paid \$161.37 in full settlement of the trespass.

United States v. Kinsey-Gruss Mining Co.: Timber trespass, Plumas National Forest. Payment of \$148.24 was accepted as compromise of the claim, and case closed.

United States v. Lee Rankin: Grazing trespass, Sequoia National Forest. Case settled by payment of \$99.29 actual and \$75 punitive damages.

United States v. W. A. Rankin: Grazing trespass, Sequoia National Forest. Case settled by payment of \$177.31 actual and \$100 punitive damages.

United States v. J. H. Lucas: Timber trespass, Lassen National Forest. Payment of \$109.22 was made in full settlement of claim.

United States v. G. B. Day: Grazing trespass, Mono National Forest. Settlement was made in the sum of \$19.

United States v. C. E. Day: Grazing trespass, Mono National Forest. Settlement was made in the sum of \$18.

United States v. C. B. Parker: Grazing trespass, Modoc National Forest. Settlement was made in the sum of \$83.33.

Law Cases in District 6—

United States *v.* Matt Smith: Fire trespass, Wenatchee National Forest. Payment of \$201.12, covering \$80.86 damage and \$120.26 expense of fighting fire, received and case closed.

United States *v.* Clarence N. Bush: Occupancy trespass, Snoqualmie National Forest. On March 6 the United States District Court for the Western District of Washington entered a decree of injunction in this case. The defendant continued to occupy the land embraced in his former squatter claim which had been declared invalid.

United States *v.* Morrison et al.: On February 21 the Supreme Court of the United States reversed the decision of the Circuit Court of Appeals and affirmed that of the United States District Court for Oregon and held that the State of Oregon did not take title to school sections embraced within a Forest withdrawal after survey in the field and after approval of the survey by the surveyor general but prior to the acceptance of the survey by the Commissioner of the General Land Office.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 327.—The Spruce and Balsam Fir Trees of the Rocky Mountain Region.

Farmers' Bulletin 711.—The Care and Improvement of the Woodlot.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

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